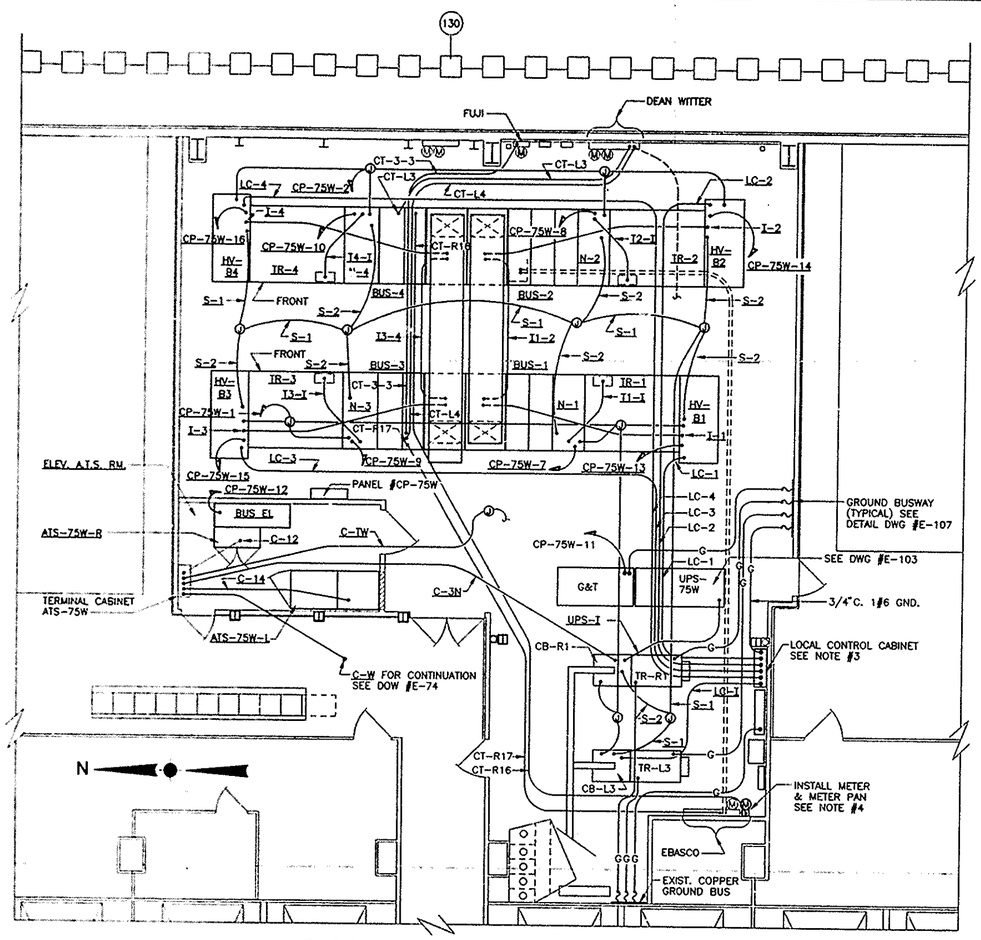

PART PLAN – 75TH FLOOR

0 4 8 12 16

SCALE IN FEET

CONDUIT AND CABLE SCHEDULE – STAGE II & III
SWITCHGEAR CONTROL & INDICATION

CKT. DESIG.	FROM	TO	SERVICE	CDT.	WIRE
SWITCHGEAR – LOCAL CONTROL CABINET					
LC-1	LOCAL CONTR. CAB.	SWGR. HV-B1	CONTROL	1 1/4"	1-12/C #14
LC-2	LOCAL CONTR. CAB.	SWGR. HV-B2	CONTROL	1 1/4"	1-12/C #14
LC-3	LOCAL CONTR. CAB.	SWGR. HV-B3	CONTROL	1 1/4"	1-12/C #14
LC-4	LOCAL CONTR. CAB.	SWGR. HV-B4	CONTROL	1 1/4"	1-12/C #14
SWITCHGEAR – INTERLOCKING BKRS. HV-B, N, &T					
I-1	SWGR. BKR. T1-3	BKR. HV-B1	240V. A.C.	1 1/2"	1-19/C #14
I-2	SWGR. BKR. T1-2	BKR. HV-B2	240V. A.C.	1 1/2"	1-19/C #14
I-3	SWGR. BKR. T3-4	BKR. HV-B3	240V. A.C.	1 1/2"	1-19/C #14
I-4	SWGR. BKR. T2-4	BKR. HV-B4	240V. A.C.	1 1/2"	1-19/C #14
I-1-2	SWGR. BKR. T1-3	BKR. T1-4	240V. A.C.	1 1/2"	1-19/C #14 & 3-1/C #14
I-3-4	SWGR. BKR. T2-4	BKR. T3-4	240V. A.C.	1 1/2"	1-19/C #14 & 3-1/C #14
REMOTE INDICATION					
T1-I	TRANS'F. TR-1	BKR. N-1	DIP N-1	3/4"	8 #14
T2-I	TRANS'F. TR-2	BKR. N-2	DIP N-2	3/4"	8 #14
T3-I	TRANS'F. TR-3	BKR. N-3	DIP N-3	3/4"	8 #14
T4-I	TRANS'F. TR-4	BKR. N-4	DIP N-4	3/4"	8 #14
UPS-I	U.P.S.	CB-R1	DIP R-1	3/4"	4 #14
LC-I	LOCAL CONTROL CAB.	CB-L3	DIP L-3	3/4"	2 #14
DIGITAL INSTRUMENT PACKAGE (DIP)					
S-1	NOTE: FOR CONNECTION SEE DWG. E-103 SCADA COMMUNICATIONS WIRING DIAGRAM			3/4"	1-2pr TW SH
S-2				3/4"	2-2pr TW SH
AUTOMATIC TRANSFER SWITCH CONTROL CONDUIT					
C-C	EXIST TERM. CAB. IN ELEC. CL. "C"	TERM. CAB. #ATS-75W	120V	1"	18 #12
C-W	TERM. CAB. #ATS-75B	TERM. CAB. #ATS-75W	120V	1 1/4"	22 #12
C-12	TERM. CAB. #ATS-75W	ATS 75WR	120V	1"	16 #12
C-14	TERM. CAB. #ATS-75W	ATS 75WL	120V	1"	16 #12
C-TW	TERM. CAB. #ATS-75W	EXIST. J.B.	120V	3/4"	5 #12
C-SE	TERM. CAB. #ATS-75B	EXIST. JB SHUTTLE ELEV. MACH. RM.	120V	3/4"	7 #12
C-BE	TERM. CAB. #ATS-75B	EXIST. JB BANK ELEV. MACH. RM.	120V	3/4"	7 #12
C-3W	TERM. CAB. #ATS-75W	CB-R1	120V	3/4"	8 #12
TENANT METERING					
CT-L3	BUS #4	METER	–	3/4"	7 #14
CT-L4	BUS #3	METER	–	3/4"	7 #14
CT-R16	BUS #4	METER	–	3/4"	7 #14
CT-R17	BUS #3	METER	–	3/4"	7 #14
CT-3-3	BUS #3	METER	–	3/4"	7 #14

SEE DWG #E-102, PANEL SCHEDULE

PANEL CP-75W
CONDUIT AND CABLE SCHEDULE

CDT. DESIGNATION	CKT No	WIRE No & SIZE	WIRE TYPE	CONDUIT SIZE
CP-75W-1	1	2 #12 1 #12	XHHW-2 GND.	3/4" C.
CP-75W-2	2	2 #12 1 #12	XHHW-2 GND.	3/4" C.
CP-75W-7	7	2 #6 1 #10	XHHW-2 GND.	3/4" C.
CP-75W-8	8	2 #6 1 #10	XHHW-2 GND.	3/4" C.
CP-75W-9	9	2 #6 1 #10	XHHW-2 GND.	3/4" C.
CP-75W-10	10	2 #6 1 #10	XHHW-2 GND.	3/4" C.
CP-75W-11	11	2 #10 1 #12	XHHW-2 GND.	3/4" C.
CP-75W-12	12	2 #12 1 #12	XHHW-2 GND.	3/4" C.
CP-75W-13	13	2 #10 1 #10	XHHW-2 GND.	3/4" C.
CP-75W-14	14	2 #10 1 #10	XHHW-2 GND.	3/4" C.
CP-75W-15	15	2 #10 1 #10	XHHW-2 GND.	3/4" C.
CP-75W-16	16	2 #10 1 #10	XHHW-2 GND.	3/4" C.

SEE DWG #E-99, CONNECTION DIAGRAM

WIRING FOR SUB. #SS-75W & E

TEMPORARY CONDUIT

WIRING FOR SUB. #SS-75W & E SEE PLAN DWG #E-73

WIRING FOR SUB. #SS-75W & E SEE PLAN DWG #E-73 & E-88

DIP INPUT

DEAN WITTER

EBASCO

FUJI

NOTE:

1. THIS DRAWING SHOWS BOTH STAGE II AND III WORK COMBINED. FOR SEPARATION OF WORK SEE NOTE #3 DWG. #E-68.
2. FOR WORK IN ELECTRIC CLOSET "C" SEE DRAWING E-69, ONE LINE DIAGRAM
3. FOR LOCAL CONTROL CABINET DETAILS SEE DRAWING E-107
4. THE CONTRACTOR SHALL PROVIDE 7 JAW INDOOR WATTHOUR METER SOCKET WITH BY-PASS SWITCH, 4WIRE 265/460 VOLT SERVICE FOR USE WITH 600-5AMP C.T.'s. SOCKET SHALL BE DELTA METAL PRODUCTS OR APPROVED EQUAL. METER WILL BE PROVIDED BY THE PORT AUTHORITY, AND INSTALLED BY THE CONTRACTOR.

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-802.071 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 6/21/95 Sultan A. Aslam
SPEC. WRITER

DATE 8/15/95 Peter K. Sweeney
ENGINEER OF DESIGN

Sheet 158 of 224

THE PORT AUTHORITY OF NY & NJ

Peter K. Sweeney
ENGINEERING PROGRAM MANAGER WORLD TRADE CENTER

CHIEF ELECTRICAL ENGINEER

Engineering Department
Design Divisions

The World Trade Center Electrical/HVAC Upgrade Program

Title
TOWER ONE AND TWO LOW VOLTAGE SUBSTATIONS CONSTRUCTION AND INSTALLATION

ELECTRICAL

SUBSTATION SS-75W STAGE II AND III 75th FLOOR PLAN CONTROL CDT. LAYOUT

No.	Date	Revision	Approved

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

Designed by LEAHY/FISCHER Drawn by LEAHY Checked by A.S.

Date 5-1-95 Scale AS NOTED

Contract Number WTC 802.071 Drawing Number E-72

PA-SHT. REV. 5

FILE NAME: 802.71E2 APR. 14, 1995